

## PROJECT DESCRIPTION

## I. GENERAL

THE WORK TO BE PERFORMED INVOLVES THE CONSTRUCTION OF A NEW TRAFFIC SIGNAL AT US 13 BUSINESS AND RAMP "D" SPUR IN WICOMICO, MARYLAND. IT IS ASSUMED THAT US 13 BUSINESS RUNS IN A NORTH-SOUTH DIRECTION.

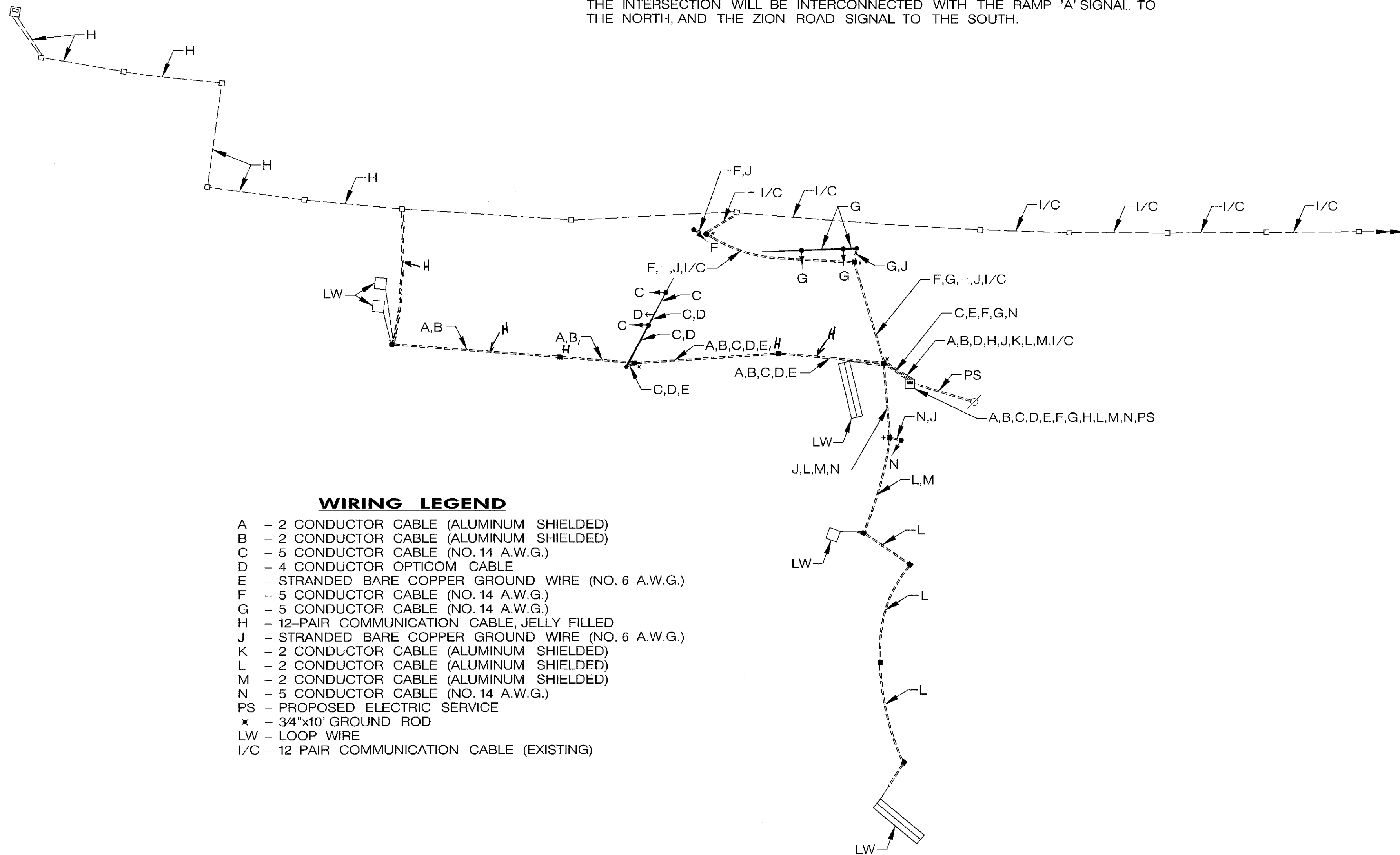
## II. INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA TWO (2) PHASE FULLY TRAFFIC ACTUATED MODE WITH OPTICOM PRE-EMPTION ON NORTHBOUND US 13 BUSINESS..

A NEW EIGHT PHASE FULLY ACTUATED CONTROLLER HOUSED IN A GROUND MOUNTED CABINET WILL BE INSTALLED.

THE INTERSECTION WILL BE INTERCONNECTED WITH THE RAMP 'A' SIGNAL TO THE NORTH, AND THE ZION ROAD SIGNAL TO THE SOUTH.

US 13 BUSINESS IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION



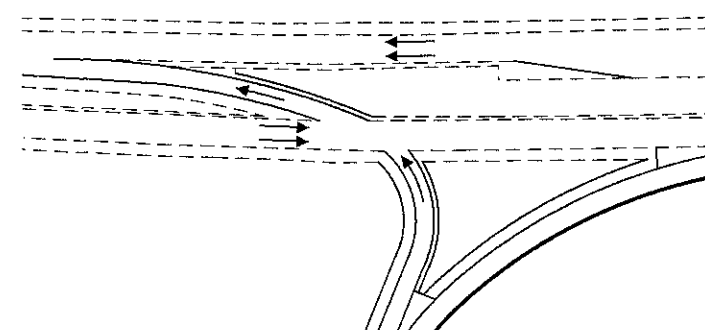
## WIRING LEGEND

- A - 2 CONDUCTOR CABLE (ALUMINUM SHIELDED)  
B - 2 CONDUCTOR CABLE (ALUMINUM SHIELDED)  
C - 5 CONDUCTOR CABLE (NO. 14 A.W.G.)  
D - 4 CONDUCTOR OPTICOM CABLE  
E - STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)  
F - 5 CONDUCTOR CABLE (NO. 14 A.W.G.)  
G - 5 CONDUCTOR CABLE (NO. 14 A.W.G.)  
H - 12-PAIR COMMUNICATION CABLE, JELLY FILLED  
J - STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)  
K - 2 CONDUCTOR CABLE (ALUMINUM SHIELDED)  
L - 2 CONDUCTOR CABLE (ALUMINUM SHIELDED)  
M - 2 CONDUCTOR CABLE (ALUMINUM SHIELDED)  
N - 5 CONDUCTOR CABLE (NO. 14 A.W.G.)  
PS - PROPOSED ELECTRIC SERVICE  
x - 3/4"x10' GROUND ROD  
LW - LOOP WIRE  
I/C - 12-PAIR COMMUNICATION CABLE (EXISTING)

WIRING DIAGRAM  
NOT TO SCALE

## PHASING DIAGRAM

	1	2	3	4	5	6
	(R)	(R)	(R)	(R)	(R)	(R)
	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)
	(G)	(G)	(G)	(G)	(G)	(G)
PHASE 2	G	G	R	R	R	R
2 CHANGE	Y	Y	R	R	R	R
PHASE 4	R	R	G	G	G	G
4 CHANGE	R	R	Y	Y	Y	Y
FLASHING OPERATION	FL Y	FL Y	FL R	FL R	FL R	FL R



INTERSECTION SKETCH  
NOT TO SCALE

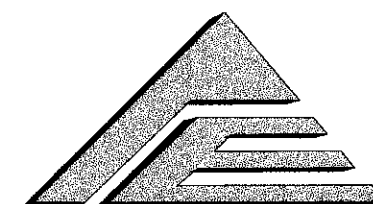
## EQUIPMENT LIST

## A. EQUIPMENT TO BE SUPPLIED BY THE SHA.

ITEM NO.	QUANTITY	UNIT	SPECIFICATION SECTION	DESCRIPTION
9001	1	EA	SP	EIGHT PHASE FULLY ACTUATED ASC II CONTROLLER HOUSED IN A BASE MOUNTED CABINET (SIZE 6) WITH TELEMETRY EQUIPMENT AND OPTICOM DISCRIMINATOR MODULE
9002	75	SF	SP	FLAT SHEET ALUMINUM SIGNS TO CONSIST OF : 3 EACH W-3 SIGN, "(SIGNAL AHEAD)" 1 EACH R3-3, "(NO. TURNS)" 1 EACH D3-1 (SALISBURY BLVD)
9003	6	EA	SP	12 INCH 1 WAY 3 SECTION (R, Y, G) SIGNAL HEAD HAVING PROPER ADJUSTABLE MAST ARM BRACKET, AND TUNNEL VISORS
9004	1	EA	SP	4 CHANNEL LOOP DETECTOR AMPLIFIER, RACK MOUNT

## B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

ITEM NO.	QUANTITY	UNIT	SPECIFICATION SECTION	DESCRIPTION
	10	CY	205	TEST PIT EXCAVATION
	42	LF	SP	FURNISH AND INSTALL 24" WHITE PERMANENT PREFORMED PAVEMENT MARKING TAPE
	2	EA	SP	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE
	6	EA	SP	INSTALL SIGNAL HEAD-ANY TYPE
	1	LS	SP	REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT PER ASSIGNMENT
	2	EA	SP	FURNISH AND INSTALL MAST ARM POLE AND 50' MAST ARM
	30	LF	810	FURNISH AND INSTALL ELECTRICAL CABLE 3-WIRE (NO. 4 AWG)
	1062	LF	SP	FURNISH AND INSTALL 3" SCHEDULE 80 RIGID P.V.C. CONDUIT-TRENCHED
	20	LF	805	FURNISH AND INSTALL 1" GALV. SLEEVE CONDUIT FOR DETECTOR WIRE
	359	LF	SP	FURNISH AND INSTALL 4" SCHEDULE 80 RIGID P.V.C. CONDUIT-TRENCHED
	13	CY	801	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
	96	LF	812	FURNISH AND INSTALL WOOD SIGN SUPPORT 4"x4"
	591	LF	SP	FURNISH AND INSTALL #6 A.W.G. STRANDED BARE COPPER GROUND WIRE
	200	LF	SP	FURNISH AND INSTALL 4" SCHEDULE 80 RIGID P.V.C. CONDUIT-BORED
	20	LF	805	FURNISH AND INSTALL 1" LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT SLEEVE
	1	EA	807	FURNISH AND INSTALL CONTROL AND DISTRIBUTION EQUIPMENT
	11	EA	811	FURNISH AND INSTALL ELECTRIC HANDHOLE
	75	SF	813	INSTALL GROUND MOUNTED SIGN
	1	EA	SP	AS-BUILT FOR TRAFFIC SIGNAL
	5	EA	804	FURNISH AND INSTALL GROUND ROD (3/4" DIAMETER x 10' LENGTH)
	1800	LF	810	FURNISH AND INSTALL ELECTRICAL CABLE- 2 CONDUCTOR (ALUMINUM SHIELDED)
	800	LF	810	FURNISH AND INSTALL ELECTRICAL CABLE- 5 CONDUCTOR (NO. 14 A.W.G.)
	1300	LF	810	FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 A.W.G.)
	450	LF	815	FURNISH AND INSTALL SAW CUT FOR SIGNAL (LOOP DETECTOR)
	1	EA	816	INSTALL CONTROLLER AND CABINET-BASE MOUNTED
	2	EA	813	INSTALL OVERHEAD SIGN
	260	LF	SP	FURNISH AND INSTALL 4-CONDUCTOR OPTICOM CABLE
	1	EA	SP	FURNISH AND INSTALL OPTICOM DETECTOR EYE
	1500	LF	SP	FURNISH AND INSTALL 12-PAIR COMMUNICATION CABLE JELLY FILLED



A/E GROUP, INC.  
ENGINEERS • PLANNERS  
181 E. Main Street  
Westminster, Maryland 21158  
A/E Job No. 89-036

REVISIONS	APPROVALS
	Michael Runk 3-10-00 TEAM LEADER/TRAFFIC ENGINEERING DESIGN DIVISION
	ASST. CHIEF TRAFFIC ENGINEERING DESIGN DIVISION
	CHIEF TRAFFIC ENGINEERING DESIGN DIVISION
	DIRECTOR TRAFFIC & SAFETY



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION  
Office of Traffic & Safety  
TRAFFIC ENGINEERING DESIGN DIVISION  
U.S. ROUTE 13 BUSINESS AT  
RAMP "D" SPUR  
GENERAL INFORMATION SHEET

DRAWN BY: J.N.W.	F.A.P. NO. SEE TITLE SHEET	TS NO. 3980-GI	SHEET NO. 325 OF 342
CHECKED BY: V.C.G.	S.H.A. NO. W7005170	T.I.M.S. NO. C-911	
SCALE: NOT TO SCALE	COUNTY: WICOMICO		
DATE: MARCH, 2000	LOG MILE: 22B01308.03		